

# Protecting Children in an On-line World



Justin Fitzsimmons  
Senior Attorney

# Topics:

- Youth Technology Use
- Smart Devices
- File Sharing Software
- Cloud Computing
- Streaming Social Networks
- Helpful Hints

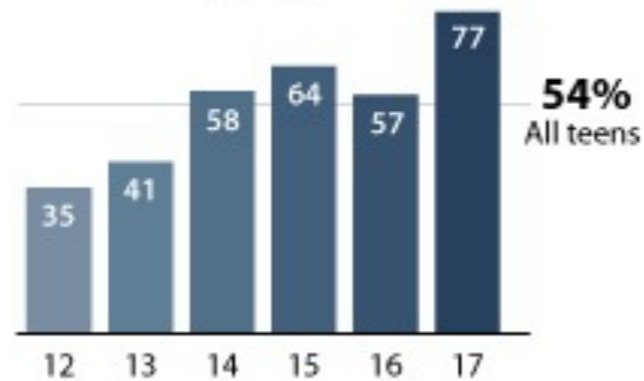
# Are Children and Teens Plugged in?



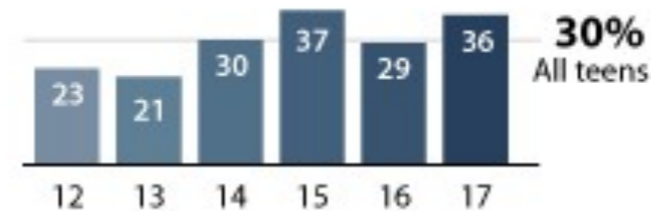
## Most teens text friends daily

The % of teens who contact their friends daily by different methods, by age

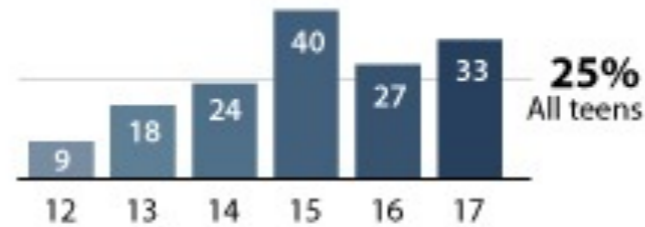
### Text messaging



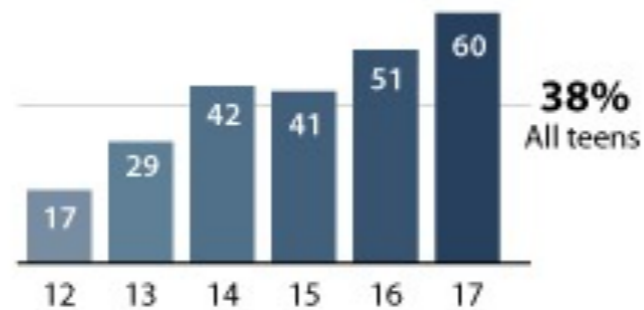
### Talk on a landline phone



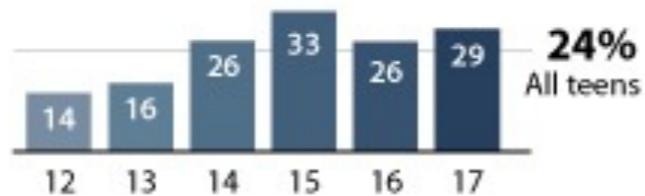
### Social network site



### Call on cell phone



### Instant messaging



### Talk face-to-face



### Email

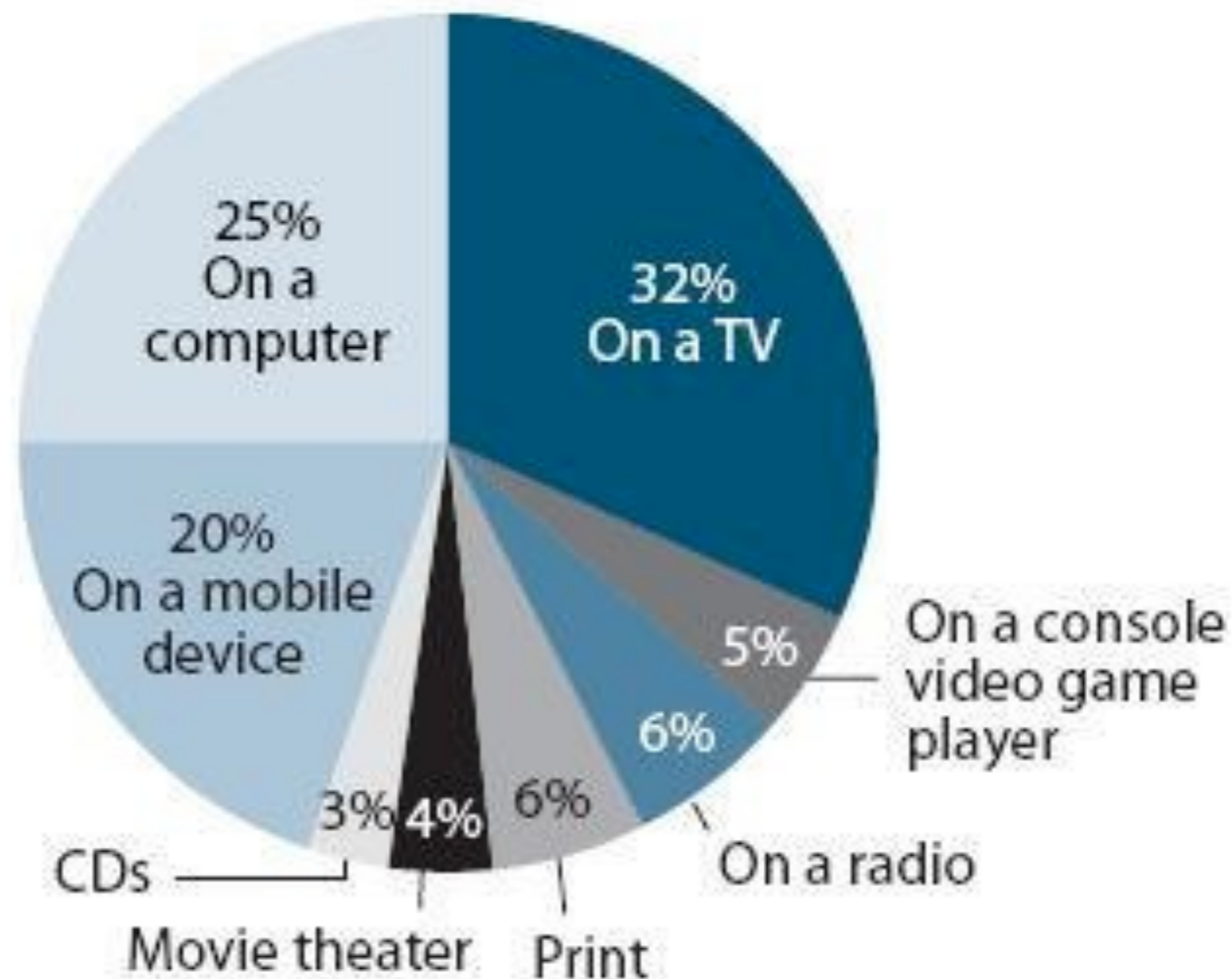


Source: Pew Research Center's Internet & American Life Project surveys. "All teens" refers to all teens ages 12-17.



# Media Hardware

Among all 8- to 18-year-olds, total media time consumed on each platform:



# Sexting is ????



# Sexting Defined:

- Urban Dictionary:



v: the act of text messaging someone in the hopes of having a sexual encounter with them later; initially casual, transitioning into highly suggestive and even sexually

DEFINITION...

# SEXTING

Sending of sexually explicit photos or text through one's mobile phone to friends or potential suitors.



# Why the Explosion?

- Accessibility
- Affordability
- Adolescent Development

# Accessibility: Internet

- Two National Juvenile Online Victimization Studies (NJOV-1 & NJOV-2)
  - National surveys of law enforcement arrests for online crimes with juvenile victims
  - Online predation
  - Solicitations to UC investigators
- NJOV-1: 600 interviews of LE for cases 7/2000 through 6/2001
- NJOV-2: 1000 interviews of LE cases ending in arrest during 2006

Trends in Arrests of "Online Predators", Wolak, Janis; Finklehor, David; Mitchell, Kimberly, Crimes Against Children Research Center, 2009

# Accessibility: Internet

- Increases in Youth Access:
  - Between 2000 and 2006:
  - Youth between 12-17
  - 2000 73%
  - 2006 93%



# Where are they looking?



# Accessibility: Internet

## Social Networking Sites:

The screenshot shows the MySpace homepage with a blue header. The MySpace logo is on the left, and navigation links like Home, Browse, Search, etc., are in the center. A large banner for the movie 'Ice Age: The Meltdown' is on the left. On the right, there's a 'Member Login' section with fields for E-Mail and Password, and a 'SIGN UP!' button. Below that is a 'Cool New People' section. At the bottom left, there's a 'MySpace Music' section featuring the Dixie Chicks.

myspace.com  
a place for friends

Help | SignUp

The Web MySpace Search

Home | Browse | Search | Invite | Film | Mail | Blog | Favorites | Forum | Groups | Events | Videos | Music | Classifieds

Blogs  
Browse  
Chat Rooms

Classifieds  
Filmmakers  
Games

Groups  
Movies  
Music

Music Videos  
Schools  
Videos

**ICE AGE  
THE MELTDOWN** IN THEATERS TODAY

MySpace Music [more music]

**Dixie Chicks**  
Country / Pop / Bluegrass  
Austin, TX

With their upcoming album "Taking the Long Way," the Dixie Chicks are putting themselves out there like never before, exploring themes both deeply private and resoundingly political. "Not Ready to Make Nice" is the first taste on MySpace.

» Listen Now

MySpace Specials

**THE MELTDOWN  
IS HERE!**

**Member Login**

E-Mail:

Password:

☐ Remember Me

[Forgot your password?](#)

**Cool New People**

Videos [more videos]

The screenshot shows the Tagged homepage with a blue header. The Tagged logo is on the left, and navigation links like HOME, MY PAGE, MY MESSAGES, etc., are in the center. A large banner for 'Home Delivery Plans' is at the top. Below that, there's a 'Member Login' section with fields for Email and Password, and a 'REGISTER' button. At the bottom, there's a 'FEATURED USERS' section with profile pictures and names.

Home Delivery Plans from about \$1 a day

To find out about Home Delivery roll over here

Change Color:

6841 members online NOW!

HOME MY PAGE MY MESSAGES FRESH STUFF CHAT NOW QUIZZES & CONTESTS INVITE FRIENDS HELP SEARCH

**ARE YOU IT?**  
Show off, sound off, discover friends and be discovered.  
Tagged is an online community all about you, your friends, and what you love.

**>> SIGN IN**

Email:

Password:

☐ Keep me logged in until I log out.

[Forgot your password?](#)

Haven't Joined Yet? [Register Now!](#)

**>> FEATURED USERS**

[Lashanna A. 15](#)

[Dealancee H. 14](#)

[Joey H. 14](#)

[John D. 16](#)

[More>>](#)

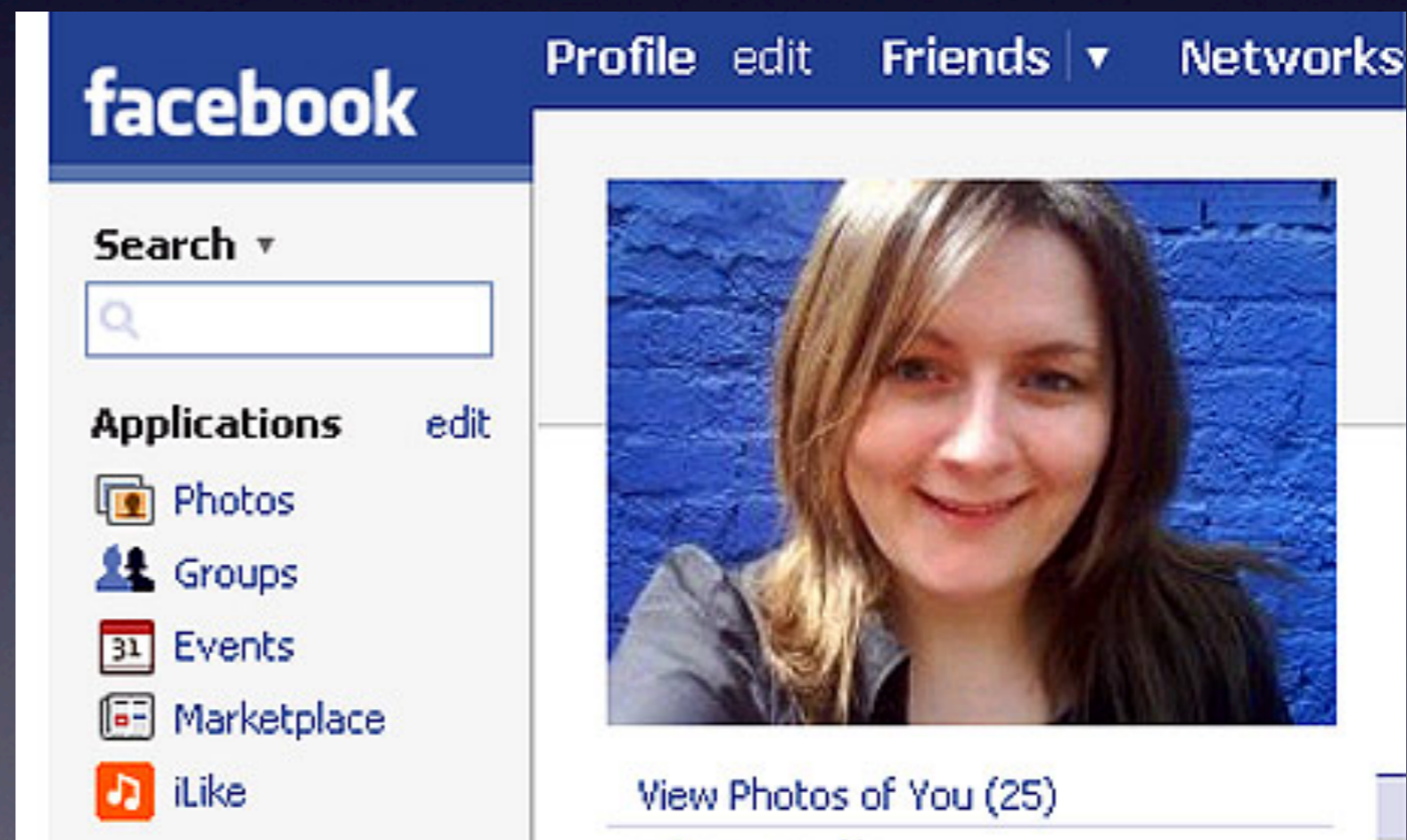
**>> WHICH TAG ARE YOU?**

Search for new friends now!

# Accessibility: Internet

## Social Networking Sites





















- By the end of 2006, 55% of 12-17 year olds used SNS.
- About 14 Million Youth



# Accessibility: Internet

## Top 20 Social Networking Websites

The following report shows websites for the industry 'Computers and Internet - Social Networking and Forums', ranked by Visits for the week ending 04/17/2010.

| Rank | Website              | Visits  |
|------|----------------------|---|
| 1.   | Facebook             | 53.57%   |
| 2.   | YouTube              | 15.19%   |
| 3.   | MySpace              | 13.18%   |
| 4.   | Twitter              | 1.11%    |
| 5.   | Tagged               | 1.05%    |
| 6.   | Yahoo! Answers       | 0.89%    |
| 7.   | Yahoo! Profiles      | 0.69%    |
| 8.   | myYearbook           | 0.69%  |
| 9.   | Windows Live Home    | 0.52%  |
| 10.  | MocoSpace            | 0.33%  |
| 11.  | Classmates           | 0.30%  |
| 12.  | Mylife               | 0.25%  |
| 13.  | Yahoo! Groups        | 0.22%  |
| 14.  | Linkedin             | 0.22%  |
| 15.  | Meebo                | 0.21%  |
| 16.  | Club Penguin         | 0.19%  |
| 17.  | CafeMom              | 0.19%  |
| 18.  | BlackPlanet.com      | 0.18%  |
| 19.  | myYearbook – Chatter | 0.17%  |
| 20.  | Yelp                 | 0.16%  |

# Accessibility: Cell Phones



- Online Common Sense Poll:

- 84% teens have cell phones
- 12-13 yr olds: 52%
- 14 yr olds: 71%

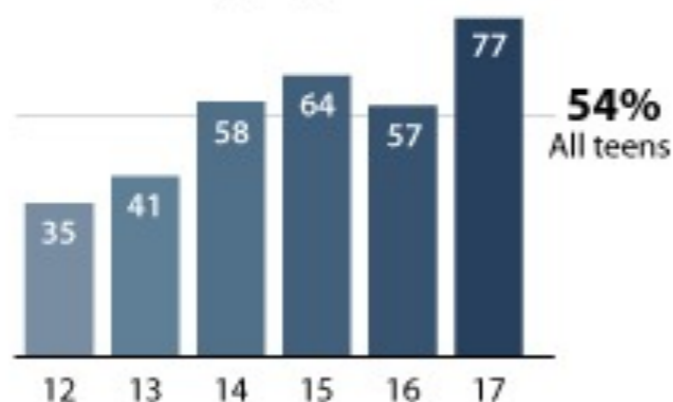
USA Today June 17, 2009



## Most teens text friends daily

The % of teens who contact their friends daily by different methods, by age

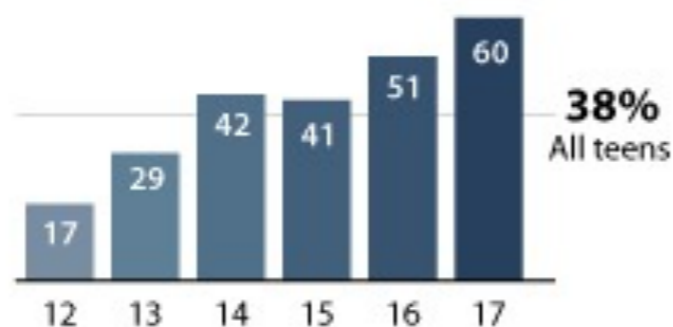
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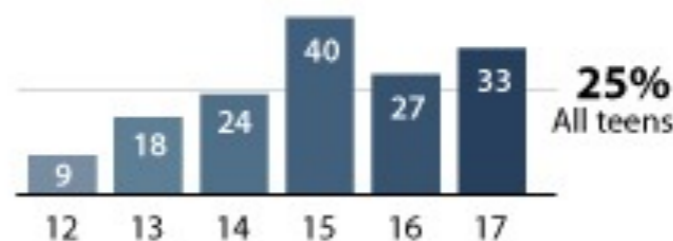
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### Call on cell phone



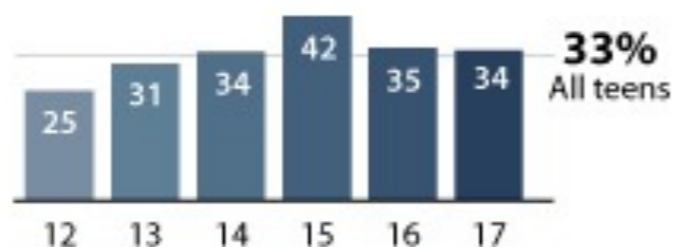
### Social network site



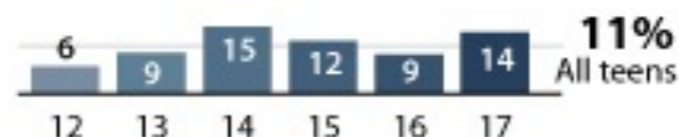
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### Talk face-to-face



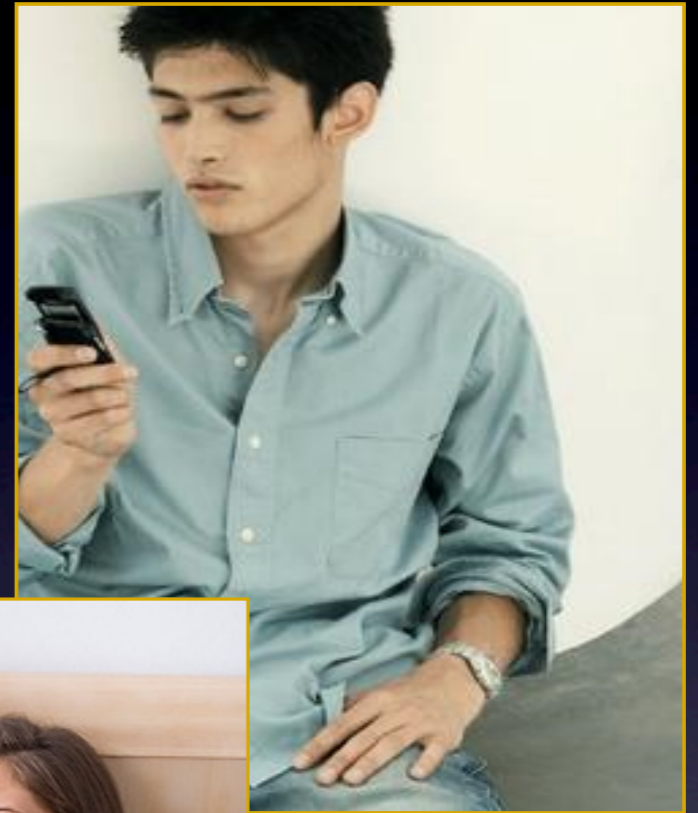
### Email



Source: Pew Research Center's Internet & American Life Project surveys. "All teens" refers to all teens ages 12-17.

# Accessibility: Cell Phones

- Nearly half (42%) of US teens say their social life would end or be worsened without their cell phone
- Second only to clothing, teens say a person's phone tells the most about their social status or popularity



According to a national survey from CTIA and Harris Interactive 07/2008

# Accessibility: Cell Phones

## Texting

- Initially U.S. teens hesitant to text, relied on talking
- 2002: Discovered SMS (short messaging service)



# Accessibility: Cell Phones

## Today:

- Teens almost as likely to text as to make phone call:
  - 13-15 yr old - 43%
  - 16-17 yr old - 48%
  - 18-19 yr old - 54%

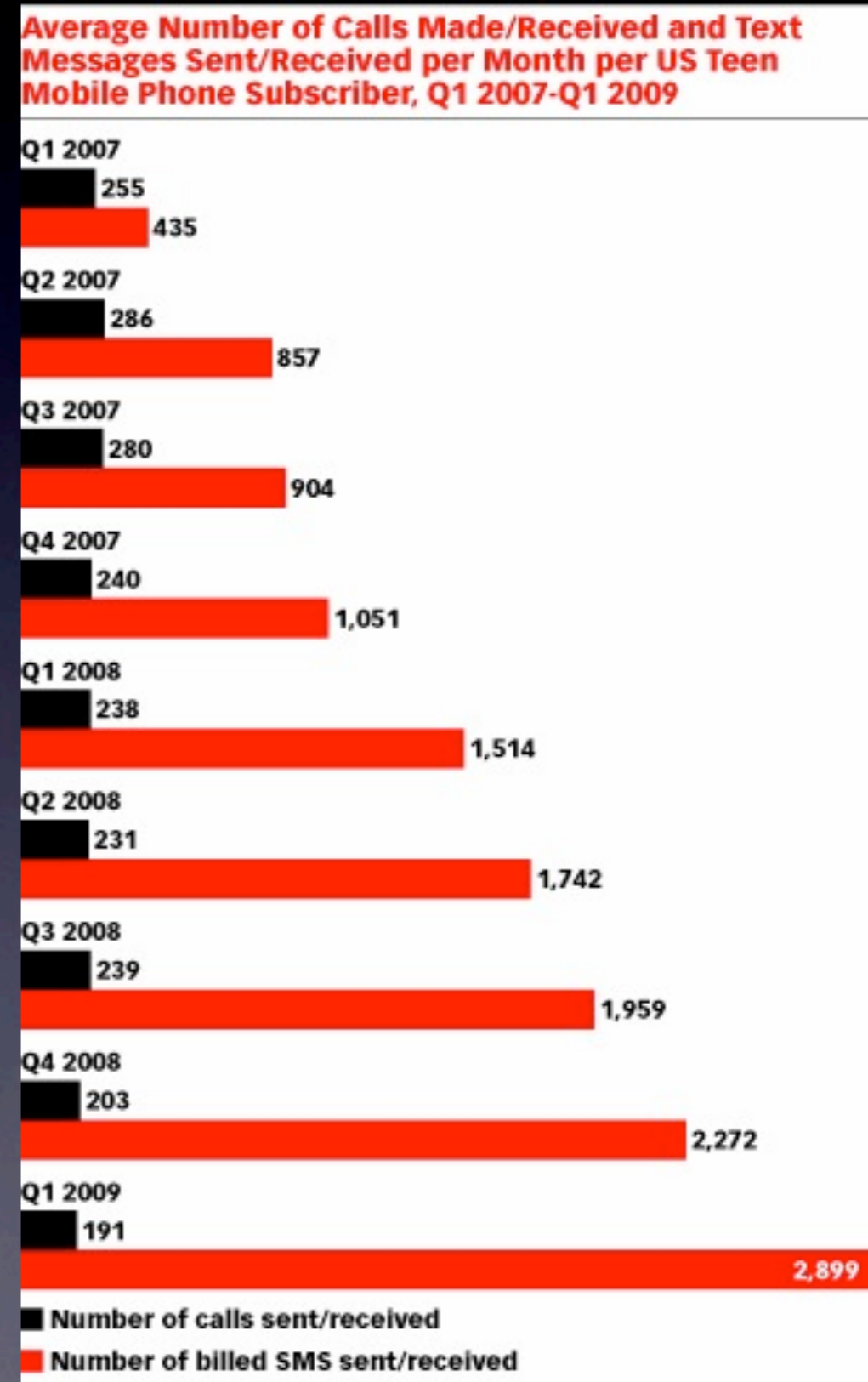


Harris Interactive, A Generation Unplugged, Sept. 2009

# Accessibility: Cell Phones

## Volume:

- More than 1 Billion text messages are sent each day
- expect 1.2 trillion to be sent this year(1)
- 42% of teens say they can text blindfolded (2)



1. Time Magazine, Sept. 10, 2009

2. Harris Interactive Poll, 2009

# Accessibility: Cell Phones

## New Language:

- LOL – Laugh Out Loud
- ROFL – Rolling On Floor Laughing
- BTW – By The Way
- BRB – Be Right Back
- JK – Just Kidding



# Accessibility: Cell Phones

## Teens Language:

- P911 – Parent Alert
- PAL – Parents Are Listening
- PAW – Parents Are Watching
- PIR – Parent In Room
- POS – Parent Over Shoulder



# Accessibility: Cell Phones

## Sexual Language:

- GNOC – Get Naked On Camera
- GYOP – Get Your Pants Off
- Numeric Codes:
  - 8 – Oral Sex
  - 143 or 459 – I Love You
  - 182 – I Hate You



PHONE SEX

You're doing it wrong !!

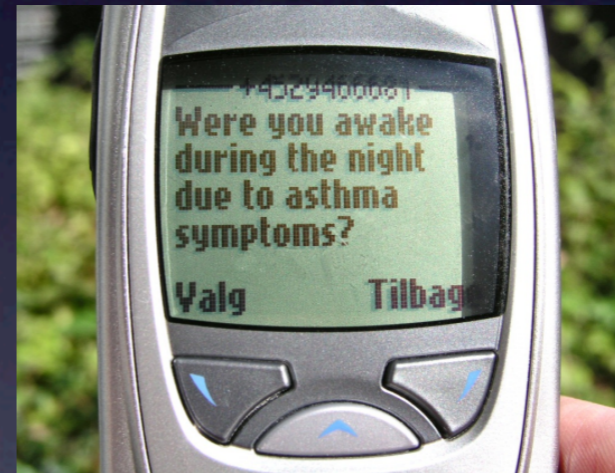
motif

# Accessibility: SMART Devices



# Accessibility: Smart Devices

- Allows teens:
  - Make cell calls
  - Send text messages
  - Access Internet
    - SNS
    - Youtube



# Youth Connected

- App's for Smart Devices



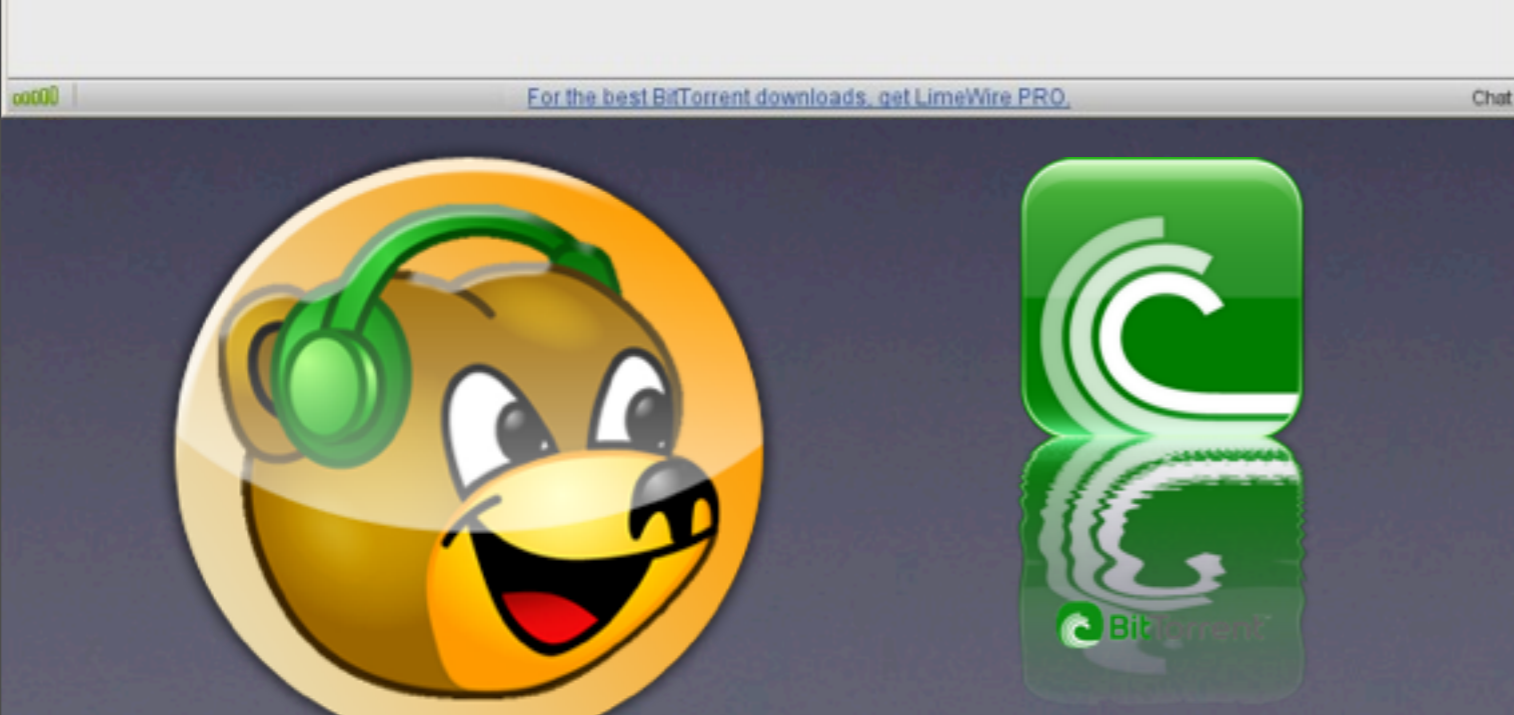
# File Sharing Software:

# Napster:

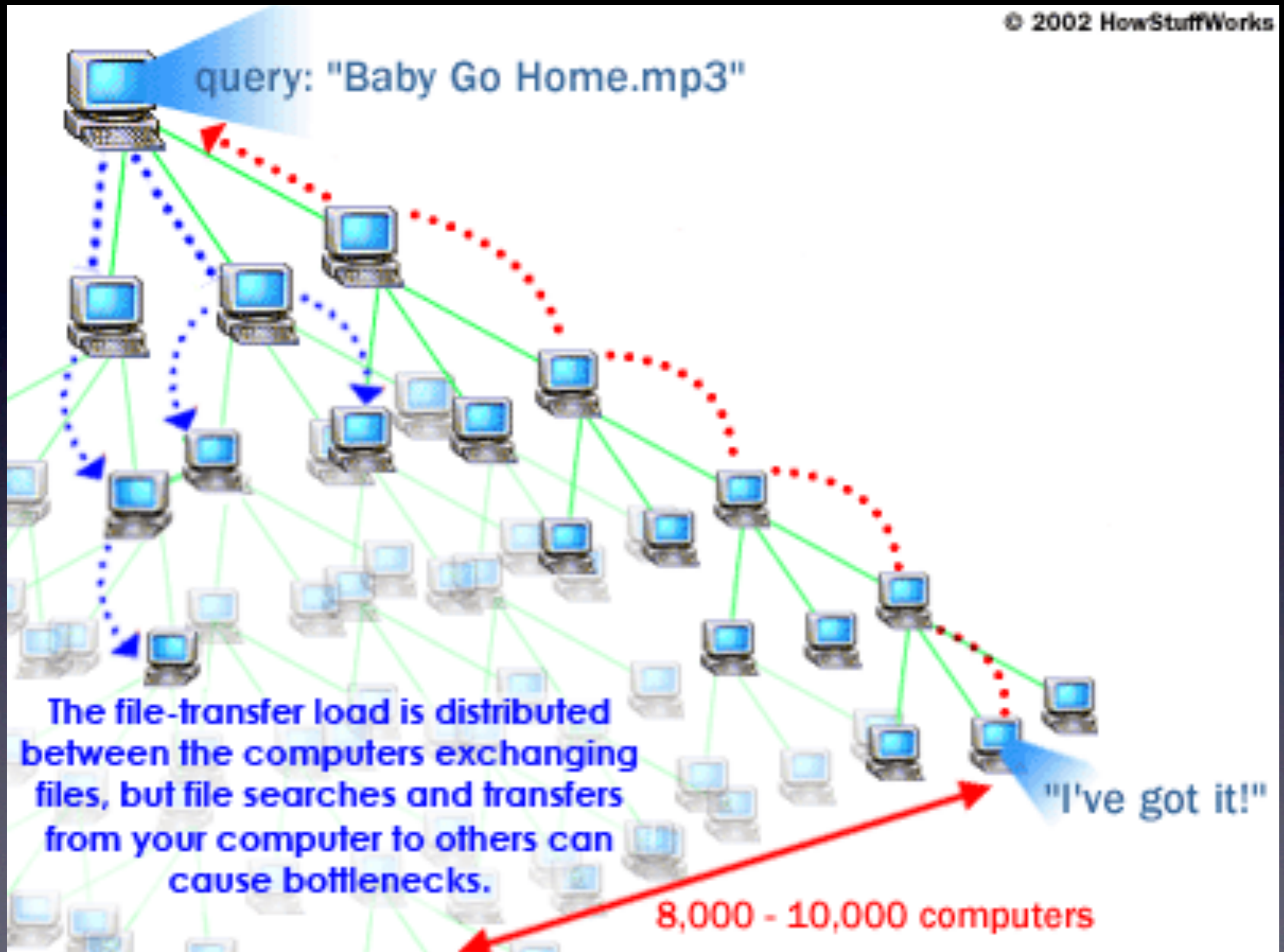
## Centralized Server:



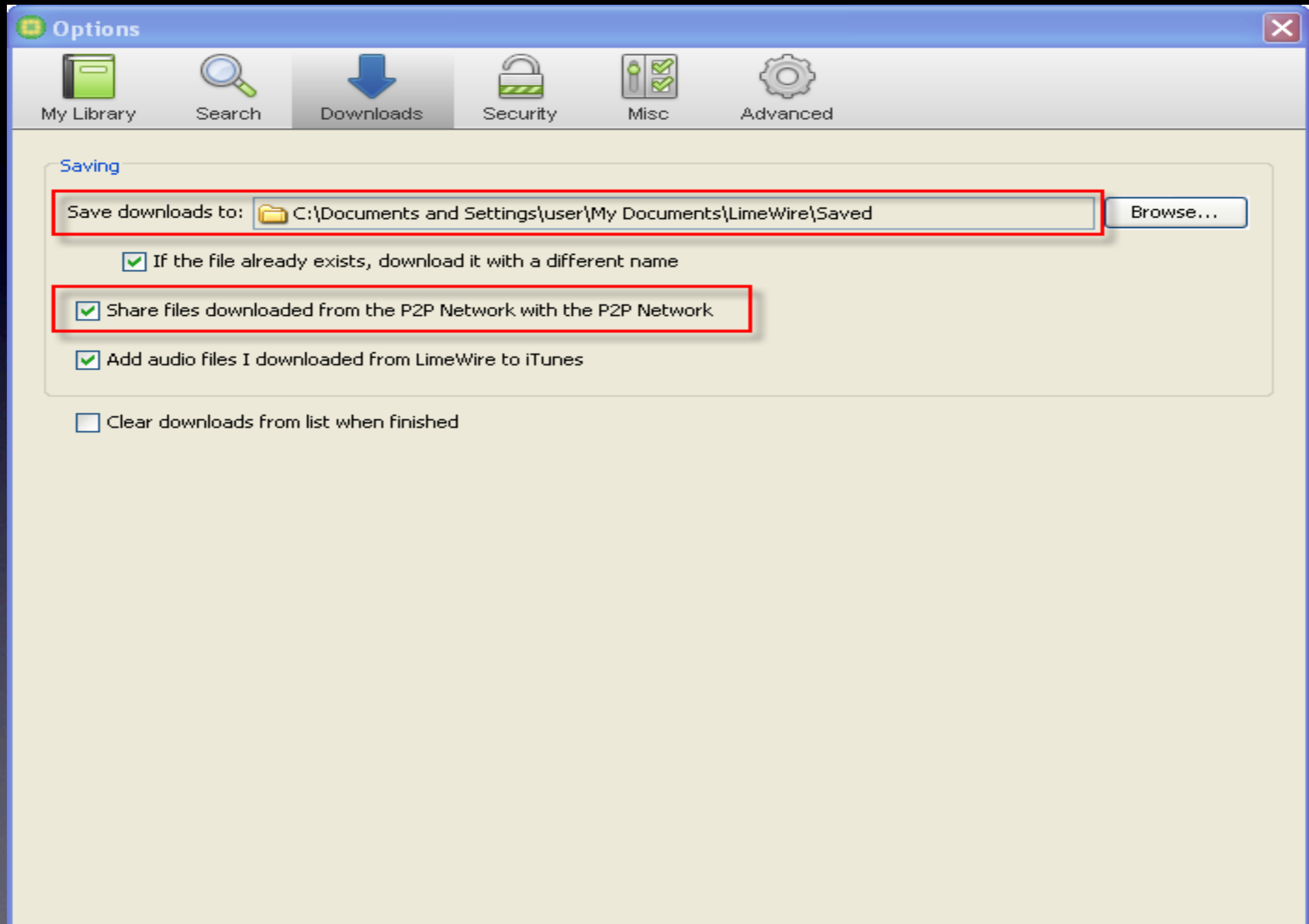
# File Sharing: Peer to Peer



# How P2P works:



# Limewire



# LimeWire:

**LimeWire: Enabling Open Information Sharing**

File View Navigation Resources Tools Help

Search Monitor Library

Filter Results:

**Media**

- All (3)
- Audio
- Programs
- Video

**Artist**

- Eminem
- Fort Minor
- Irish Drinking Songs
- Juelz Santana
- Musical - Rent**

**Album**

- All (8)
- 1970 - Those Fabulous '70s
- Devil's Night (Advance)
- Ghettomusick VLS**

Back To Search

+magnetmix.com+

music (86)

| Q...  | ... | ... | Name                                  | ...  | Size     | Sp...     | Bi... |
|-------|-----|-----|---------------------------------------|------|----------|-----------|-------|
| ★★★★★ | 11  |     | OutKast - Ghetto Musick               | mp3  | 5,528... | T3 or ... | 192   |
| ★★★★★ | 11  |     | Dem Franchise Boyz - On Top O...      | mp3  | 3,425... | T3 or ... | 128   |
| ★★★★★ | 8   |     | Musical - Rent - 525600 Minutes       | mp3  | 3,844... | T3 or ... | 160   |
| ★★★★★ | 2   |     | Afroman - Because I Got High (M...    | mpg  | 33,35... | Modem     |       |
| ★★★★★ | 2   |     | Jay-Z - Jay - Music Videos - Dirt ... | mpg  | 47,19... | Modem     |       |
| ★★★★★ | 2   |     | 70's & 80's Music - Nancy             |      |          |           |       |
| ★★★★★ | 2   |     | Lil' Wayne - Fireman (Music video)    | mpg  | 62,43... | Modem     |       |
| ★★★★★ | 2   |     | Chingy Right Thurr Music Video (...)  | mpg  | 39,43... | Modem     |       |
| ★★★★★ |     |     | 2pac Ft. Outlawz & Val Young - ...    | mp3  | 5,133... | T1        | 192   |
| ★★★★★ |     |     | Eminem - Stan (Full Uncut Versio...   | mpeg | 83,22... | Modem     |       |
| ★★★★★ |     |     | D12 & Eminem - Fight Music            | mp3  | 6,170... | Modem     | 192   |
| ★★★★★ |     |     | Techno - Abercrombie & Fitch - ...    | mp3  | 4,044... | T3 or ... | 128   |
| ★★★★★ |     |     | MC Hammer & Vanilla Ice - Play T...   | mp3  | 4,644... | T3 or ... | 128   |
| ★★★★★ |     |     | House music-Techno - Dance.Ra...      | mp3  | 4,045... | T3 or ... | 128   |
| ★★★★★ |     |     | DJ Tiesto - Live @ Heineken Mus...    | zip  | 851.7... | Cable/... |       |

Download Browse Host Stop Search Junk

# P2P on Steroids:



## Private, Secure, Unlimited File Sharing Software

[Free download](#)

**No**  
Spyware  
Adware  
Malware...

### How it works

**1****Install**

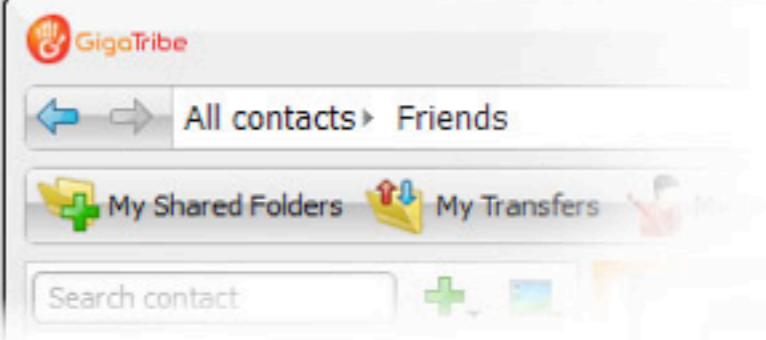
Download GigaTribe,  
create an account

**2****Invite**

Invite friends  
to join your network

**3****Share**

Select the folders  
you want to share



### Legal & Secure Network



- [GigaTribe is 100% legal.](#)
- Downloads are encrypted (Blowfish 256-bit).
- You decide who join your private network.

### Why use GigaTribe

- Share files with **no limitations** on file quantity or size.
- Files are available in their original format.
- You don't waste time uploading files.

### News

Today - 5:12 am

**1,336,202 user accounts created!**

April 23, 2010 - 6:18 pm

**[GigaTribe 3.01.005 final available](#)**

April 19, 2010 - 5:36 pm

Tools Quit

← → All contacts Team Steph-H Photos San-Francisco Napa

My Shared Folders My Transfers My Profile Add Downloads Contact us

- ★ Alexsystem - La RC e...
- Alin3b
- BarbaThing
- Bioman
- CriquetMan
- Donovo.j
- ★ Frop\_los\_bask
- ★ Giloup
- ★ John.falcon
- ★ Kiss-sweetie
- LeonidaxBorder
- ★ Mat-crakra
- Nick3000
- ★ PeerDouble
- ★ Romeo-lover-plus - Tes...
- Theroadtrucks
- Xprinter
- Team (4/9)
  - ★ Arizona\_dreamer
  - Bonbinyeah - Découvr...
  - ★ Chadombre - J'utilis...
  - Damicha - travaille sur ...

Steph-H

Connected (Available)

Profile
Folders
Chat
Blog

Display
Parent folder
Start download

| Name         | Size | Type | Modification date | Rating |
|--------------|------|------|-------------------|--------|
|              |      |      |                   |        |
| IMG_0541.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0542.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0543.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0544.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0545.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0546.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0547.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0548.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0549.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0550.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0551.JPG |      |      |                   |        |
|              |      |      |                   |        |
| IMG_0552.JPG |      |      |                   |        |

Tools Quit

Carboglace

My Shared Folders
My Transfers
My Profile
Add
Downloads
Contact us

Carboglace - Alright :)

All contacts (27)

Received Invitations (6)

Mes utilisateurs (3/10)

- Alex Lord - Bientôt la fi...
- Alexsystem - La RC e...
- Alin3b
- BarbaThing
- Bioman
- CriketMan
- Donovo.j
- Frop\_los\_bask
- Giloup
- John.falcon
- Kiss-sweetie
- LeonidaxBorder

### Carboglace

Alright :)  
Connected (Available)

News
Profile
Folders
Transfers
Blog

Display

| Name          | State        | User      | Size       | Progress    | Speed |
|---------------|--------------|-----------|------------|-------------|-------|
| Downloads (9) |              |           |            |             |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/1.9 MB | <div></div> |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/1.5 MB | <div></div> |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/2.2 MB | <div></div> |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/2.4 MB | <div></div> |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/1.7 MB | <div></div> |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/1.9 MB | <div></div> |       |
| ▶ IMG_...     | Queued by me | 0/2 users | 0 B/1.8 MB | <div></div> |       |

4 elements

Available
7 contacts connected
0.0 KB/s
0.0 KB/s

## Best of all: it's free!

GigaTribe is available in two versions: Free and Ultimate.

### **The Free version is fully functional:**

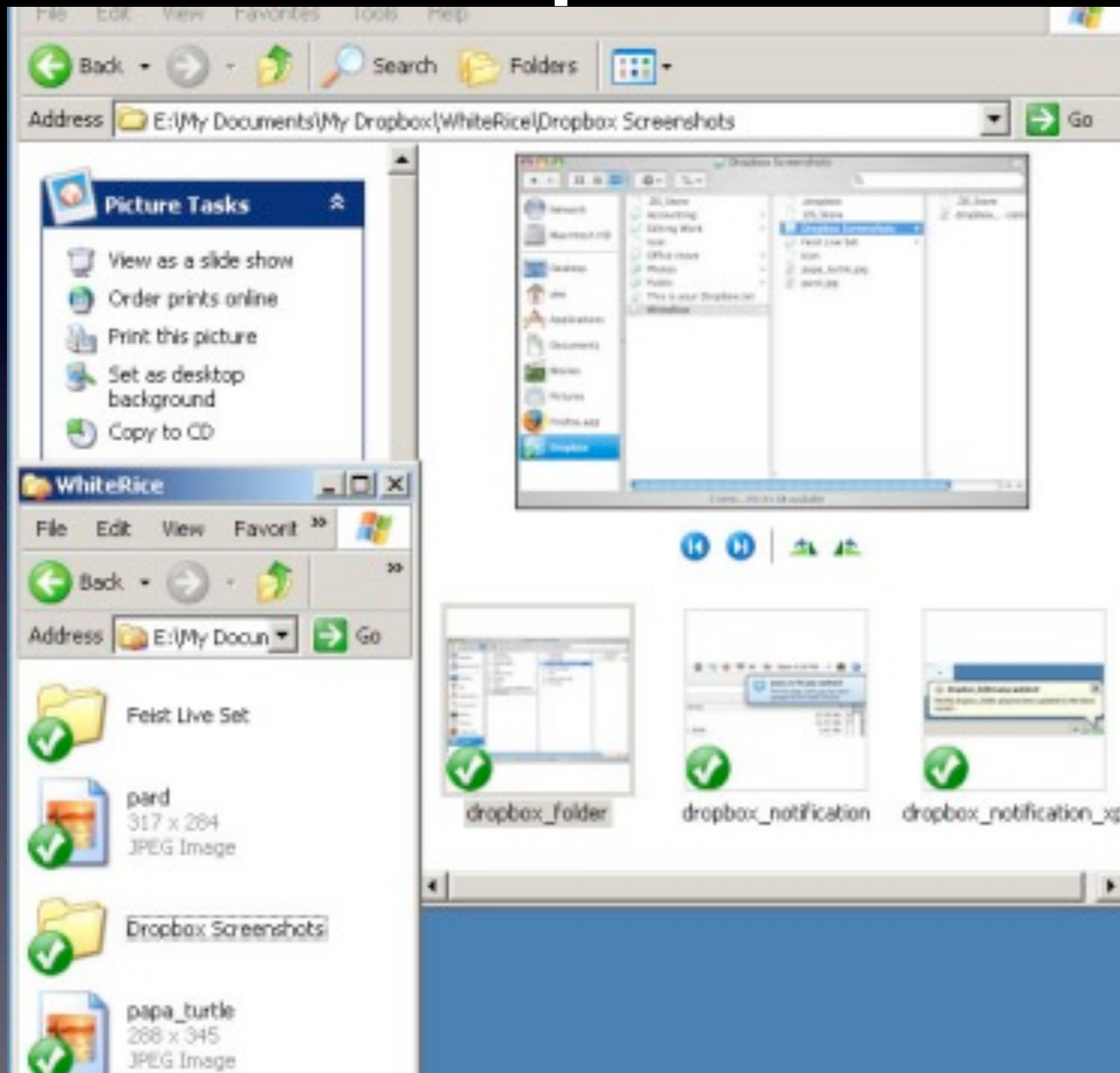
- You may invite up to 500 friends.
- You may share and download as many files as you like.
- Any file can be shared regardless of its type or size.
- Interrupted transfers automatically resume with no data loss.
- All data transfers are encrypted.
- You may use our Ultimate "EasyConnect" feature, for free, for 30 days.

A personal chat and a private blog are available for you and your friends.

# Cloud Computing

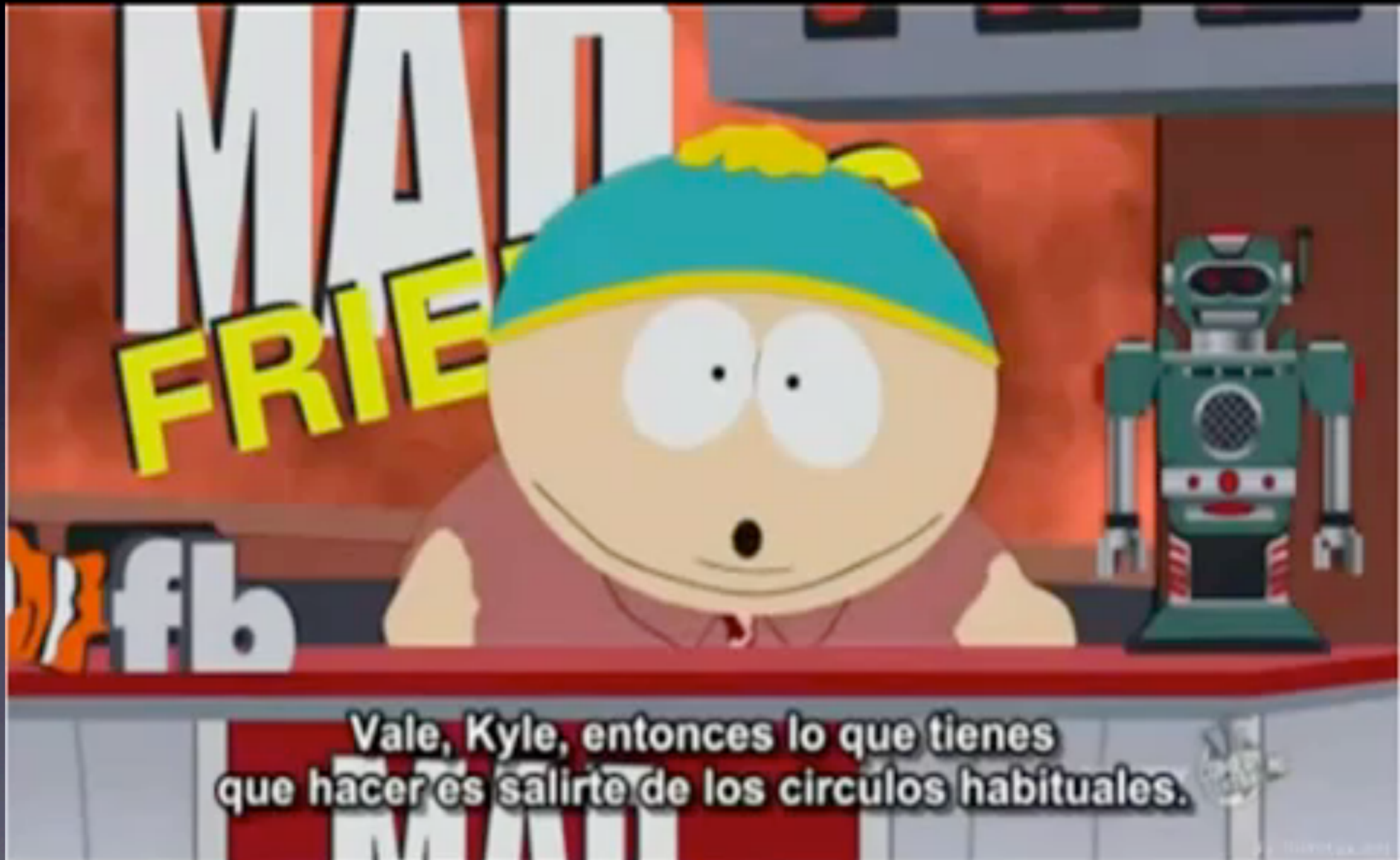


# Dropbox:



# Streaming Social Networking Sites:

# Chatroulette:



## Video

[Report inappropriate video](#)Cam: **ManyCam'** ▼Mic: **Built-In Mic** ▼Rcv: ☒ Video ☒ AudioSpeaker: Send: ☒ Video ☐ AudioMic: 

## Chat

\* Connected, feel free to talk now \*

**Stranger:** asian!

**You:** Me?

**You:** No.

**Stranger:** totally

**You:** How do I look Asian?

**Stranger:** the face area

**You:** lol

**You:** no way

**Stranger:** a little

**You:** I'm Jessica Alba.

**Stranger:** really?

**Stranger:** you don't look like her

**You:** You don't think so?

**You:** lol

**Stranger:** nope

# Pedo Bear



You



> Connected, feel free to talk now

You: omg

You: pedo bearrrrrr

Stranger: =D

You: I LOVE U

Stranger: I love you too

Stranger: wait

Stranger: how old are you

You: 17\

Stranger: too old

Stranger: dont want dont want

You: NOOOOOOOOOOOOO

Stranger: best thing about twenty three year olds?

You: :[

Stranger: twenty of them

☒ Chat sounds

Font



You: omg

You: pedo bearrrrrr

Stranger: =D

You: I LOVE U

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Stranger: wait

Stranger: how old are you

You: 17\

Stranger: too old

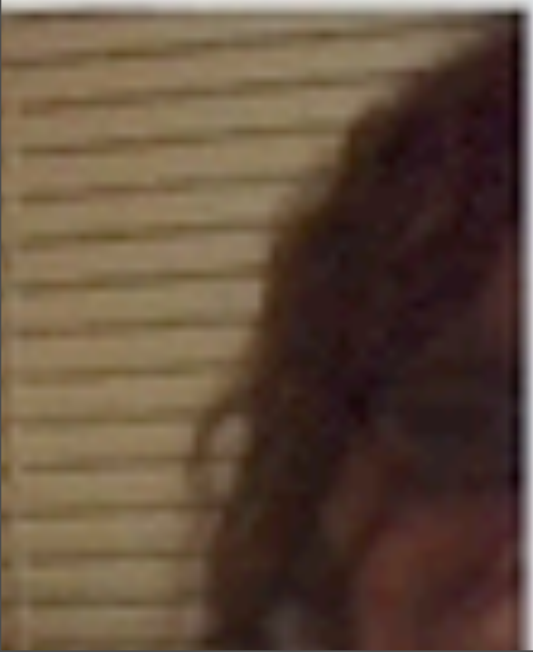
Stranger: dont want dont want

You: NOOOOOOOOOOOOOO

Stranger: best thing about twenty three year old

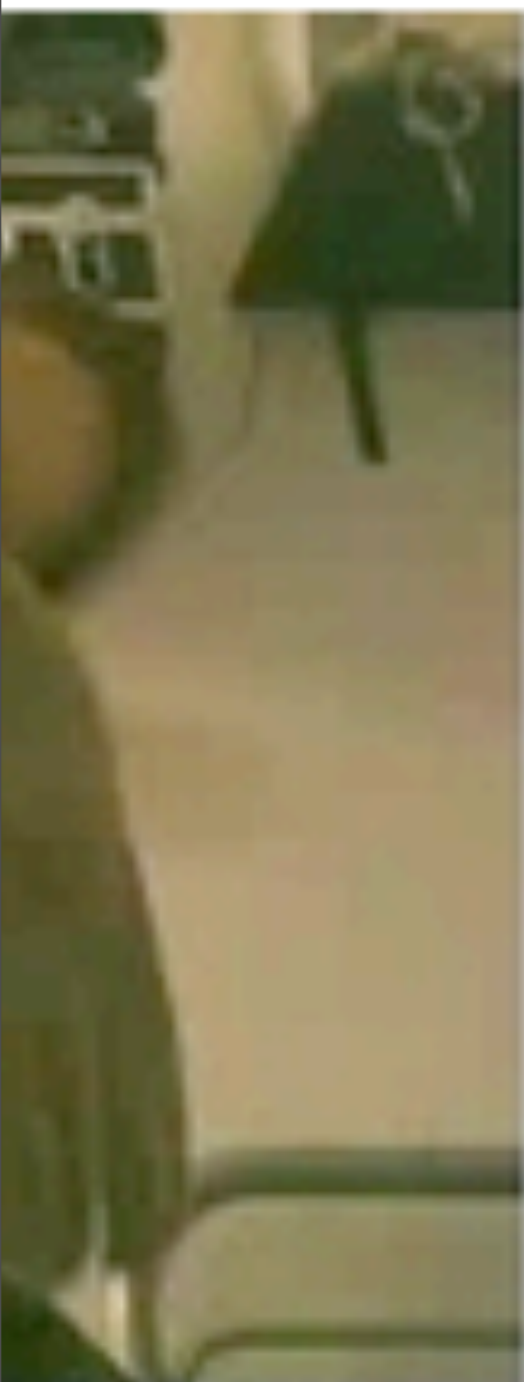
You: :[

Stranger: twenty of them



☒ Chat sounds

|



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Stranger: =D

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Stranger: wait

Stranger: how old are you

You: 17\

Stranger: too old

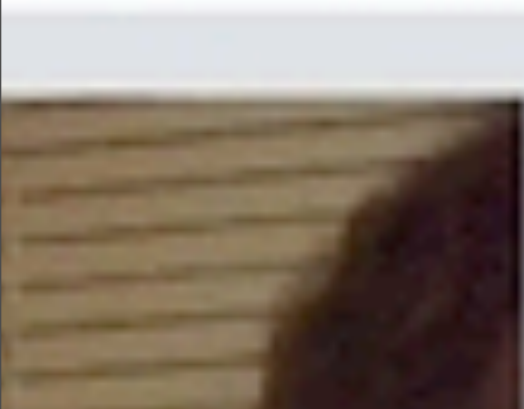
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You: NOOOOOOOOOOOOOO

Stranger: best thing about twenty three year old

You: :[

Stranger: twenty of them



# “Stickam”

**STICKAM** the live community™

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[Home](#) [Live Streams](#) [Shuffle](#) <sup>NEW</sup> [Group Chat](#) [Browse](#) [Help](#)

[Join](#) | [Login](#)

Search

[Go Live™](#)

## Featured Live

### The GFQ Network

Current viewers: 304  
Session viewers: 198,047  
All time viewers: **2,791,499**  
Channel: [Radio](#)

The Guys From Queens network presents a wide variety of talk and music programming, all live from (naturally) Queens.

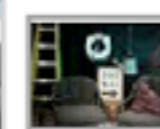
[Subscribe](#)

[Enter Live Chat](#)



28,287 Online Members

[View All](#)



### ★ Actors Entertainment

Live viewers: 59  
New Show: It's Friday Night with Mary Jo Gruber 8p PST and ActorsE chat show m-f



### The GFQ Network

Live viewers: 304  
Andrew talks about all things happening in his life and the world every Thursday at



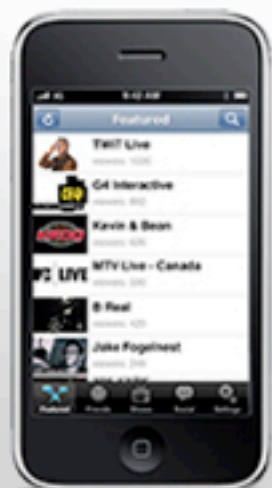
### Let's Paint TV

Live viewers: 247  
Let's Paint TV



### HomiesRadio.com

Live viewers: 59  
JOIN THE "HOMIE" REVOLUTION NOW AND JOIN THE WEBCAMS AND CHAT.



## STICKAM Mobile

The new all-in-one BROADCASTER + VIEWER iPhone App is here

Stream live from your iPhone in one click!

View any Stickam stream and text chat.



Available on the  
**App Store**



# Mobile.me Technology:



# How Do We Protect Them?

# How Do We Protect Them?

Communication

# How Do We Protect Them?

Education

# How Do We Protect Them?

Technology

# Software Programs:

- Key Stroke Loggers
- Filtering Programs
-

# How Do We Protect Them?

Resources

# Resources:



# Conclusions:

- Never be able to keep up with technological changes
- Headed towards more mobile
- Storage in cyberspace
- Can't give up....

# Thank you...questions?



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